Approved For Release 2005/02/17 : CIA-RDP78B04770A001100040015-1

MONTHLY REPORT

[redacted]

25X1

PAR 224

2 Oct 64

SUBJECT: 3 - 15X Fluid Gate Enlarger

TASK/PROBLEM

1. Develop and fabricate an enlarger having continuously variable magnification from 3 to 15X for 70mm square negative gate size. Print sizes to range 40 x 40 inches on cut sheet stock.

DISCUSSION

2. Work is proceeding with close correlation to that on PAR 202. Effort this period has been on:

a. Vacuum Platen and Carriage: Design layouts for the platen and its carriage are about 50 percent complete. The requirements for a rigid, lightweight structure which can be transported easily to accurately known positions are, we believe, being met. Light metal castings are being considered. A motor-blower unit to evacuate the platen has been ordered.

b. Negative Transport: Fabrication of the mockup is complete and preliminary alignment and film tracking tests were started. A ball-spline support for the film spool outrigger arm proved unsatisfactory due to deflection under load and helix in the spline shaft.

c. Lens Design: Preliminary design data for one of the color lenses appear quite encouraging.

Declass Review by NGA.

GROUP 1
Excluded from automatic downgrading and declassification

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PLANNED ACTIVITY

3. Effort in the next period will be:

a. Continue the vacuum platen and carriage design and possibly release some parts of the breadboard model for fabrication.

b. Modify and further test the negative transport breadboard.

c. Order the mount design and sample lens fabrication for at least four of the monochromatic lenses.

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